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WHAT IS CLAIMED IS:

1. a magnetic tape drive including a head unit,  
the head unit has  
a plurality of recording heads which record data on a  
5 magnetic tape, and  
a servo head which performs a readout of a servo signal  
recorded on the magnetic tape in order to perform a tracking  
control of the head unit, wherein  
recording heads are lined up along the width directions  
10 with respect to the magnetic tape,  
the distance between adjacent recording heads is the same  
as the distance between adjacent data tracks to be formed on  
the magnetic tape by respective recording heads,  
azimuth angles of adjacent recording heads differ with  
15 each other, and  
a plurality of data tracks are simultaneously formed on  
the magnetic tape by respective recording heads, when  
performing the recording of data on the magnetic tape.
- 20 2. A magnetic tape drive according to claim 1, wherein  
the head unit has a plurality of reproducing heads which  
performs the readout of data written by recording heads from  
the magnetic tape, wherein reproducing heads are provided in  
a one-to-one relationship with corresponding recording heads,  
25 and wherein  
the azimuth angle of each reproducing heads is the same

as that of corresponding recording head.

3. A magnetic tape drive according to claim 2, wherein  
the width of the reproducing head is longer than the width  
5 of the recording head.

4. A magnetic tape drive according to claim 2, wherein  
the reproducing head has spare reproducing heads at both  
sides in the width directions with respect to the magnetic tape,  
10 wherein  
the length and azimuth angle of the spare reproducing head  
are the same as that of the reproducing head.

5. A magnetic tape drive according to claim 3, wherein  
15 the reproducing head has spare reproducing heads at both  
sides in the width directions with respect to the magnetic tape,  
wherein  
the length and azimuth angle of the spare reproducing head  
are the same as that of the reproducing head.

20 6. A magnetic tape drive according to claim 4, wherein  
only the data obtained by the reproducing head that covers  
the entire data track in the width directions is used, when two  
or more reproducing heads are simultaneously located on the  
25 data track.

7. A magnetic tape drive according to claim 5, wherein  
only the data obtained by the reproducing head that covers  
the entire data track in the width directions is used, when two  
or more reproducing heads are simultaneously located on the  
5 data track.
8. A magnetic tape drive according to claim 1, wherein  
azimuth angles of adjacent recording heads are  
established at predetermined different angle whose absolute  
10 value is the same value.
9. A magnetic tape drive according to claim 2, wherein  
azimuth angles of adjacent recording heads are  
established at predetermined different angle whose absolute  
15 value is the same value.
10. A magnetic tape drive according to claim 3, wherein  
azimuth angles of adjacent recording heads are  
established at predetermined different angles whose absolute  
20 value are the same value.
11. A magnetic tape drive according to claim 4, wherein  
azimuth angles of adjacent recording heads are  
established at predetermined different angle whose absolute  
25 value is the same value.

12. A magnetic tape drive according to claim 5, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

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13. A magnetic tape drive according to claim 6, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

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14. A magnetic tape drive according to claim 7, wherein azimuth angles of adjacent recording heads are established at predetermined different angle whose absolute value is the same value.

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15. A magnetic tape drive according to claim 1, wherein azimuth angles of recording heads differs with each other.

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16. A magnetic tape drive according to claim 2, wherein azimuth angles of recording heads differs with each other.

17. A magnetic tape drive according to claim 3, wherein azimuth angles of recording heads differs with each other.

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18. A magnetic tape drive according to claim 4, wherein azimuth angles of recording heads differs with each other.

19. A magnetic tape drive according to claim 5, wherein azimuth angles of recording heads differs with each other.
- 5 20. A magnetic tape drive according to claim 6, wherein azimuth angles of recording heads differs with each other.